

CLAIMS

1. A transparent film comprising:

5 (A) a thermoplastic resin having a substituted or non-substituted imide group at a side chain of the resin; and

(B) a thermoplastic resin having a substituted or non-substituted phenyl group and a nitrile group at a side chain of the resin,

10 wherein a retardation value of the film is from 0 to 1000 nm,

a light transmission of the film is 85% or more, and a haze of the film is 2% or less.

15 2. A film according to claim 1, wherein the thermoplastic resin A consists of an olefin repeating unit, and a repeating unit having a substituted or non-substituted imide group at a side chain of the resin.

20 3. A film according to claim 1, wherein the retardation value is less than 20 nm.

4. A film according to claim 1, wherein the retardation value is 20 nm or more.

25 5. A film according to claim 1, wherein an alignment retardation value of the film is 300 nm or less.

30 6. A film according to claim 1, wherein the film is a stretched film.

7. A film according to claim 1, wherein a folding endurance of the film is 30 times or more in at least one direction

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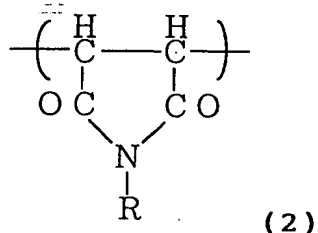
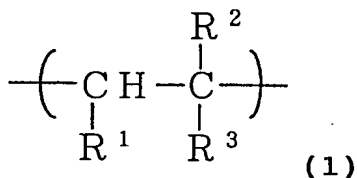
in a plane of the film.

8. A film according to claim 1, wherein a tear propagation strength of the film is 150 gf/mm or more in at least one direction in a plane of the film.

9. A film according to claim 1, wherein a surface energy of at least one surface of the film is 50 dyne/cm or more.

10. A film according to claim 3, wherein a retardation of the film in a thickness direction of the film is 50 nm or less.

11. A film according to claim 1, wherein the thermoplastic resin A includes a repeating unit represented by the following formula (1), and another repeating unit represented by the following formula (2):



(where R¹, R² and R³ independently indicate a hydrogen atom or an alkyl group having 1 to 8 carbon atoms, and R indicates an alkyl group having 1 to 18 carbon atoms or a cycloalkyl group having 3 to 12 carbon atoms), and

wherein the content of the thermoplastic resin A is 50 to 90% by weight with reference to the weight of overall resins in the film.

12. A film according to claim 1, wherein the thermoplastic resin B has a substituted or non-substituted acrylonitrile

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repeating unit and a substituted or non-substituted styrene repeating unit,

5 the substituted or non-substituted acrylonitrile repeating unit is 20 to 50% by weight of the thermoplastic resin B, and

the substituted or non-substituted styrene repeating unit is 50 to 80% by weight of the thermoplastic resin B.

10 (13. A method for producing a film according to claim 1, the method comprising the steps of:

flow-expanding a solution containing the thermoplastic resin A and the thermoplastic resin B on a support; and

15 drying the solution.

14. An elliptical polarization plate comprising a retardation film according to claim 4 and a polarization plate, wherein the film and the polarization plate are laminated.

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15. A circular polarization plate comprising a retardation film according to claim 4 and a polarization plate, wherein the film and the polarization plate are laminated.

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16. A polarization plate comprising a polarizer and a protection film protecting at least one side of the polarizer, wherein the protection film is a film according to claim 1.

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